Traveling Disk i261

BK03 Series

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Revision History

Revision	Date	History	Remark
A.0	05/21 '07	New Creation	

- Important!! Please make sure the driver matches the part number on your pen drive before you download.
- Software AP System Requirements. One of following operation systems: Windows 98/98SE/Windows ME/Windows 2000/Windows XP/Windows Vista.
- The advertised memory capacity of this device represents unformatted capacity. Please note that once formatted and due to variations in flash module block limitations, the functional storage space will be lower than the advertised capacity.
- "PQI reserves the right to make changes without notification when fit, form, function, quality and reliability are not affected. The data sheets do not constitute contract documents and should not be considered part of the specification for purposes of any warranty."

1. Introduction to Traveling Disk i261

Traveling Disk i261 is designed lid-less (360 degree rotating shell) so users don't have to worry about losing the lid to their USB flash drives. i261 USB flash drive signifying different seasons with different colors. They are a colorful bunch you just got to get your hands on! Utilizing PQI's own patented Intelligent Stick interface, it is thinner and yet still compatible with USB 1.1 / 2.0

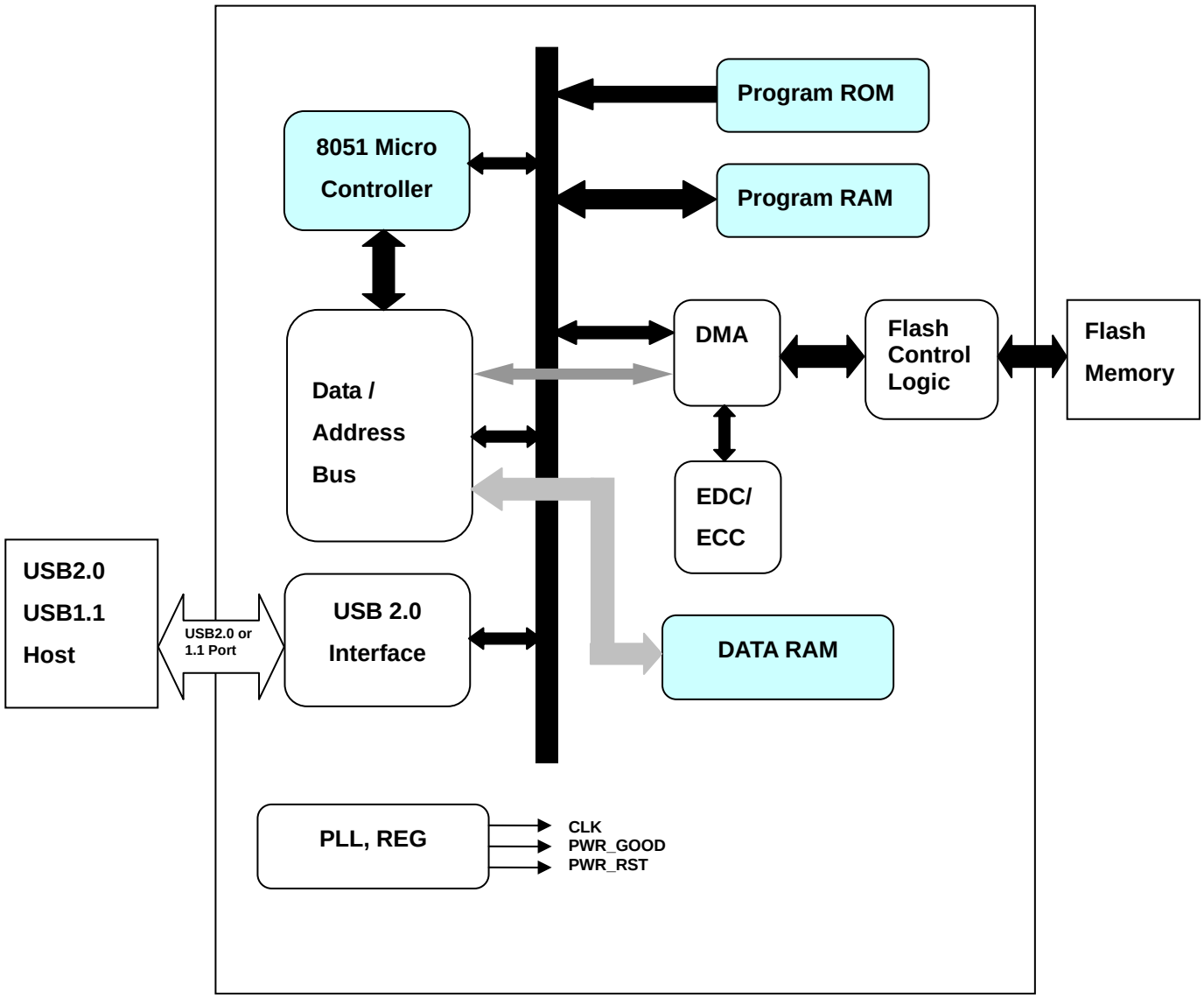
2. Main Features Overview

1. ・360 degree rotating shell
2. ・PQI's patented Intelligent Stick™ interface (USB 2.0/1.1 compatible)
3. ・Can use strap
4. ・Hot swappable, USB Plug & Play compatible
5. ・LED access indicator with three modes: Busy, waiting, and off
6. ・Store data, music, pictures and videos
7. ・Software available on PQI website
8. ・Product Warranty: Life Time Warranty
9. ・Support Windows Vista

3. Hardware Specifications

USB Interface	PQI's patented Intelligent Stick™ interface (USB 2.0/1.1 compatible)	
NAND Flash Interface	Integrated ECC circuits for 4-bit error correction	
OS Support	No drive is required for Windows ME, 2000, XP, Vista or Mac OS 9.x	
Environment		
Temperature	Operating	0℃ to 65℃
	Non-Operating	-20℃ to 75℃
Vibration	Operating	0.2G
	Non-Operating	15G
Shock resistant	Operating	150G
	Non-Operating	1000G
Configuration		
Capacity		512MBytes ~ 8GBytes
Reliability		
MTBF(@25℃)		1,000,000 hours
Power Requirement		
Voltage		DC 5V ± 10%
Power Consumption		
Read		<100mA
Write		<100mA
Standby		<50mA
Un-configuration		<50mA
Suspend		<0.5mA

4. Block Diagram



5. Absolute Maximum Ratings

Symbol	Parameter	Min	Max	Unit
Tstorage	Storage Temperature	-20	75	℃
Ta	Ambient Operating Temperature	0	65	℃
Vcc3	3.3V Supply Voltage	-0.3	3.6	V
Vcc18	1.8V Supply Voltage	-0.3	2	V
Vin3.3	3.3V Buffer Input Voltage	-0.3	3.6	V
Vin3/5	3.3V/5V Buffer Input Voltage	-0.3	5	V
Vin1.8	1.8V Buffer Input Voltage	-0.3	2	V

6. DC Characteristics

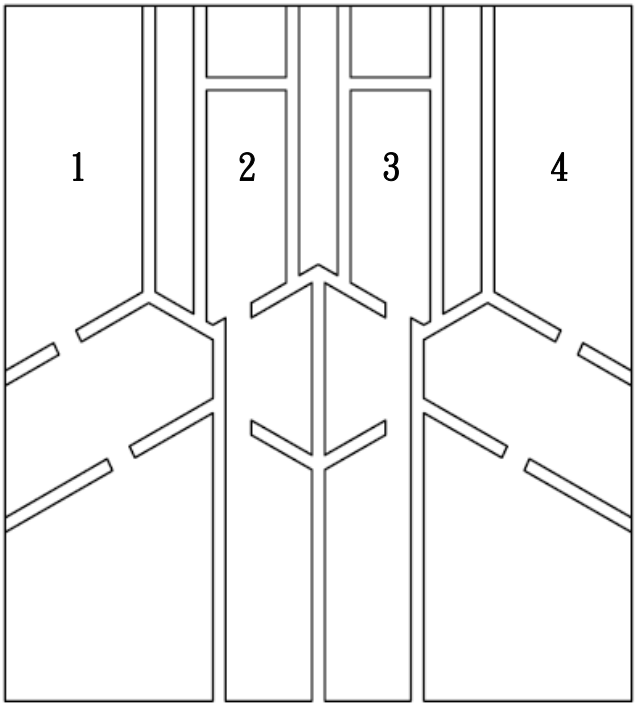
Symbol	Parameter	Min.	Max.	Unit	Notes
V_{IH_TTL}	TTL Input High Voltage	2	Vcc3+0.3	V	
V_{IL_TTL}	TTL Input Low Voltage	-0.3	0.8	V	
V_{OH_TTL}	TTL Output High Voltage	0.9 X Vcc3		V	
V_{OL_TTL}	TTL Output Low Voltage		0.45	V	
I_{OH_TTL}	TTL Output High Current	-4		mA	
I_{OL_TTL}	TTL Output Low Current		4	mA	
V_{IH_USB}	USB Input High Voltage for Low-/full-speed	2.0		V	
V_{IL_USB}	USB Input Low Voltage for Low-/full-speed		0.8	V	
$V_{I_USB_DIFF}$	Differential Input Sensitivity for Low-/full-speed	TBD		V	
$V_{I_USB_CM}$	Differential Common Mode Input Range for Low-/full-speed	0.8	2.5	V	
$V_{I_USB_HSSQ}$	USB High-speed squelch Input detection threshold	0.10	0.15	V	
$V_{I_USB_HSDSC}$	USB High-speed disconnect Input detection threshold	0.525	0.625	V	
$V_{I_USB_HSCM}$	USB High-speed Signaling Common Mode Range	-0.05	0.5	V	
V_{OH_USB}	USB Output High Voltage for Low-/full-speed	2.8	3.6	V	
V_{OL_USB}	USB Output Low Voltage for Low-/full-speed	0	0.3	V	
$V_{OH_USB_HS}$	USB Output High Voltage for High-speed	0.36	0.44	V	
$V_{OL_USB_HS}$	USB Output Low Voltage for High-speed	-0.01	0.01	V	
I_{OH_USB}	USB Output High Current for Low-/full-speed	-10		mA	
I_{OL_USB}	USB Output Low Current for Low-/full-speed		10	mA	
$I_{OH_USB_HS}$	USB Output High Current for High-speed	-40		mA	
$I_{OL_USB_HS}$	USB Output Low Current for High-speed		40	mA	

7. Recommended Operating Conditions

Symbol	Parameter	Min.	Typical	Max.	Units
Vcc33	Power Supply Voltage	3.0	3.3	3.3	V
Vin	Input Voltage	0	Vcc	Vcc+0.3	V
Vcc25	Internal Power Support	2.25	2.5	2.75	v

8. Pin Assignments

Pin No.	Pin Name	Function
1	VCC	USB power input
2	USB D-	USB differential signal
3	USB D+	The pairs are used to transmit Data/Address/Command
4	VSS	Ground



9. Physical Specifications

9.1 Dimensions:

9.1.1 Height: 59.60mm ± 0.1mm
9.1.2 Width: 18.60mm ± 0.1mm
9.1.3 Depth: 12.40mm ± 0.1mm
9.1.4 Weight: 9.0g ± 0.5g

9.2 Outline of top view